Attachment A MTBE Biodegradation Workshop Agenda





MTBE Biodegradation Workshop

Marriott Kingsgate Conference Center Cincinnati, Ohio February 1–3, 2000

Agenda

Meeting Goals

Ben Blaney, US EPA

OVERVIEW OF ISSUES

MTBE and Underground Storage Tanks Sammy Ng, US EPA

EPA's ORD Current and Future Research on MTBE Bioremediation Fran Kremer and Stephen Schmelling, U.S. EPA

MTBE Biodegradation: API and Industry Perspectives

Bruce Bauman API

The Distribution and Environmental Fate of MTBE in the Hydrosphere: The Approach of the U.S. Geological Survey

Francis Chapelle, USGS

EPA Region 9 Perspective on MTBE Response Steve Linder, US EPA

PRESENTATIONS

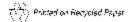
In Situ Treatment

Transport and Fate of a BTEX and MTBE Plume: What do we know? Bob Borden, NCSU

Bioaugmentation of MTBE-Contaminated Groundwater with Bacterial Strain PM1

Doug Mackay, University of Waterloo

Microbial Cometabolism of MTBE
Michael Hyman, North Carolina State University





Anaerobic Biodegradation of MTBE and TBA

Kevin Finneran, University of Massachusetts-Amherst

In Situ Control of MTBE Plumes with Inoculated Biobarriers

Joseph Salanitro, Equilon Enterprises

In Situ Treatment of MTBE by Biostimulation of Native Aerobic Microorganisms

Doug Mackay

Monitored Natural Attenuation

Evaluating Attenuation of MTBE: What we have Learned from LUFT Data and Laboratory Studies

Anne Happel, Lawrence Livermore Laboratory

The Fate of MTBE in the Borden

AquiferBarbara Butler, University of Waterloo

MTBE Attenuation Processes: Ambient and Enhanced Redox Conditions, Stream-Bed-Ground-Water Interactions, and Plant Uptake

James Landmeyer, USGS

Field Evidence for MTBE Degradation in the Unsaturated Zone at Low Concentrations Arthur Baehr, USGS

Natural Attenuation of MTBE in the Subsurface Under Methanogenic Conditions John Wilson, US EPA

Comparative Evaluation of MTBE Sites on Long Island Jim Weaver, US EPA

Ex Situ Treatment

Drinking Water Issues
Thomas Speth, US EPA

MTBE Biodegradation: Kinetics, Reactor Engineering, and the Potential for Ex-Situ Treatment of Groundwater

Robert Cowan, Rutgers University

Mineralization of MTBE in Continuous Flow High Biomass Bioreactors Albert Venosa, US EPA

Kinetics of MTBE Biodegradation

Makram Suidan, University of Cincinnati

Research in Bioremediation of MTBE at UC Riverside: Lessons from Laboratory Experiments Marc Deshusses, University of California-Riverside

Experience with Laboratory and Field Scale *Ex-Situ* Biodegradation of MTBE Daniel Chang, University of California-Riverside

POSTERS

The Effects of Ethanol on BTEX Natural Attenuation: Pure Culture and Aquifer Column Experiments Pedro Alvarez, US EPA

The Borden Field Experiment - Where Has the MTBE Gone? Demonstrating In Situ Remediation - the Borden Aquifer Research Facility

Jim Barker, University of Waterloo

Process Level Investigations of the In Situ Degradation of MTBE Clinton Church, Oregon Graduate Institute

Research in Bioremdediation of MTBE at UC Riverside: Lessons from Laboratory Experiments

Marc Deshusses

Biodegradation of MTBE in Soil Monitored by IRMS John Haines, US EPA

Natural Attenuation of MTBE at a Site where 24 Bedrock Wells were Contaminated by a 10-Gallon Gasoline Spill

Bruce Hunter, Maine Department of Environmental Protection

Anaerobic Biodegradation of MTBE and Alternative Gasoline Oxygenates Kevin Kropp, University of Oklahoma

Using Iso-Pentane to Stimulate MTBE Biodegradation In Groundwater Treatment Systems William Stringfellow, Lawrence Berkely National Laboratory

Structure and Behavior of the MTBE Plume at Port Hueneme, CA John Wilson